

## **ABSTRACT OF DISCLOSURE**

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**Methods for the screening of non-recombinant cell lines capable of expressing a single PDE4 isoenzyme and for the screening of PDE4 inhibitors**

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The invention concerns a method for the screening of a non-recombinant cell line capable, under appropriate conditions, of exhibiting an upregulated expression of a target protein, preferably an isoenzyme of PDE4, more preferably PDE4A.

The invention also concerns methods for the screening of a candidate molecule that modulates the expression or the activity of human phosphodiesterase 4A.

The candidate molecules selected by the screening methods of the invention are potentially useful as therapeutic molecules for diseases caused or regulated by cyclic nucleotide-modulated transduction mechanisms, such as airway disorders like asthma.